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ELECTRICAL LOAD LIST

Contract S1d – STP at Bellandur Amanikere

Bangalore Water Supply and Sewerage Board

S.No	Motor Description	T	W	S	Motor kW	Motor Speed
					kW	rpm
	TSPS					
1	TSPS Coarse Screens	3	2	1	1.50	1500
2	Screenings Conveyor	1	1	0	0.75	1500
3	TSPS Pumps	6	4	2	160.00	960
4	Motorised Monorail Hoist - Lifting device	1	1	0	1.50	1500
5	Motorised Monorail Hoist - Cross Travel	1	1	0	0.18	1500
6	Dewatering Pumps	2	1	1	1.50	2900
	Preliminary Treatment Section					
1	Medium Screens	5	4	1	1.50	1500
2	Screenings Conveyor	1	1	0	0.75	1500
3	Grit Mechanism	4	4	0	0.75	1500
4	Grit Washers and Classifiers	4	4	0	1.10	1500
5	Organic Return Pumps	4	4	0	0.75	1500
	Primary Treatment Section					
1	Primary Clarifier Mechanism	4	4	0	1.50	1500
2	Primary Scum Pumps	2	1	1	4.00	1500
	Secondary Treatment Section					
1	Anaerobic Mixers	8	8	0	5.50	1500
2	Anoxic Mixers	12	12	0	5.50	1500
3	Process Air Blowers	8	5	3	330.00	3000
4	EOT Crane - Lifting Drive	1	1	0	3.00	1500
	EOT Crane - Cross Travel	1	1	0	0.37	1500
	EOT Crane - Long Travel	1	1	0	0.37	1500
5	Mixed Liqour Recycle Pumps	8	4	4	55.00	720
6	Motorised Monorail Hoist - Lifting device	1	1	0	1.50	1500
	Motorised Monorail Hoist - Cross Travel	1	1	0	0.18	1500
7	Alum Dosing Pumps	3	2	1	0.55	1500
8	Alum Solution Tank Mixers	2	2	0	0.75	1500
9	Alum Dispersion Rapid Mixer	1	1	0	7.50	1500

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Electrical Load List & Consumption

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10	Secondary Clarifier Mechanism	4	4	0	2.20	1500
11	Return Activated Sludge (RAS) Pumps	12	8	4	22.00	1500
12	Motorised Monorail Hoist - Lifting device	1	1	0	1.50	1500
	Motorised Monorail Hoist - Cross Travel	1	1	0	0.18	1500
13	Secondary Scum Pumps	2	1	1	4.00	1500
	Disinfection Section					
1	Chlorine Ejector	2	1	1		1500
2	Motorised Monorail Hoist - Lifting device	1	1	0	1.50	1500
	Motorised Monorail Hoist - Cross Travel	1	1	0	0.18	1500
	Sludge Handling Section					
1	Primary Sludge Pumps	8	4	4	3.70	1500
2	Gravity Sludge Thickener Mechanism	2	2	0	2.20	1500
3	Thickened Sludge Pumps	3	2	1	5.50	1500
4	Digester Gas Mixing Blowers	3	2	1	132.00	1500
5	Digester Mixing pump	4	2	2	75.00	1500
6	Biogas blowers for Boiler	2	1	1	11.00	1500
7	Digester Sludge Circulation Pumps	6	4	2	7.50	1500
8	Digester Hot Water Circulation pumps	3	2	1	5.50	1500
9	Centrifuge Feed (Dewatering Influent, DWI) Pumps	3	2	1	5.50	1500
10	Dewatering Centrifuges - Main Drive	3	2	1	22.00	1500
	Dewatering Centrifuges - Back Drive	3	2	1	3.10	1500
11	Polymer Batch Tank Mixers	3	2	1	1.10	1500
12	Polymer Metering Pumps	3	2	1	2.20	1500
13	Dewatered Sludge Conveyors	1	1	0	1.50	1500
14	Dewatered Sludge Hoppers	1	1	0	1.10	1500
15	Motorised Monorail Hoist - Lifting device	1	1	0	1.50	1500
	Motorised Monorail Hoist - Cross Travel	1	1	0	0.18	1500
	Gas Flare Panel					
1	Biogas blowers	2	1	1	9.30	1500
	Gas Scrubber Panel					
1	Biogas Scrubbing System including all pumps, blowers, and accessories - standby units for all pumps and blowers	2	1	1	7	1500
2	Biogas blowers	2	1	1	11.00	1500

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	Chlorine Leak Absorption System					
1	Caustic solution pump	2	1	1	5.5	1500
2	Air blower	2	1	1	3.7	1500
	Auxiliary System					
1	Plant Drain Pumps	3	2	1	11.00	1500
2	Bore Well Pumps	2	1	1	5.50	1500
3	Plant Water Pumps	3	2	1	18.50	1500
4	Pumps for service, Dewatering and Sump	3	2	1	3.00	1500
5	Automated Flow Weighted Composite Samplers	4	3	0	0.37	1500
6	Laboratory (equipment & exhaust fans)	1	1	0	5	1500
7	Air conditioner	2	2	0	2.2	1500
	Motorized Valves and Gates					
1	Motorized Sluice Gate	6	4	2	1.10	1500
2	Motorized weir gate	1	1	0	1.10	1500
3	Motorized Sluice Gate	2	2	0	1.10	1500
4	Mototrized Knife Gate Valve	6	4	2	0.70	1500
5	Mototrized Knife Gate Valve	1	1	0	0.70	1500
6	Mototrized Knife Gate Valve	3	3	0	0.70	1500
7	Motorized Eccentric Plug valve	3	3	0	0.70	1500
8	Motorized Eccentric Plug valve	3	3	0	0.70	1500
9	Motorized Butterfly valve	3	3	0	0.70	1500
10	Motorized Eccentric Plug valve	8	8	0	0.70	1500
11	Motorized Eccentric Plug valve	1	1	0	0.70	1500
12	Mototrized Knife Gate Valve	3	3	0	0.70	1500
13	Mototrized Knife Gate Valve	2	2	0	0.70	1500
14	Motorized Eccentric Plug valve	2	2	0	0.70	1500
15	Motorized Butterfly valve	4	4	0	0.70	1500
16	Mototrized Butterfly Valve	2	2	0	0.70	1500
17	Motorized Butterfly valve	3	3	0	0.70	1500
	HVAC Load					
1	Ventilation Fans	10	10	0	0.37	1500
2	Ventilation Fans	6	6	0	0.37	1500
3	Ventilation Fans	10	10	0	0.75	1500
4	Ventilation Fans	6	6	0	0.37	1500
5	Ventilation Fans	8	8	0	0.37	1500
6	Ventilation Fans	12	12	0	0.37	1500

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7	Ventilation Fans	4	4	0	0.37	1500
8	Ventilation Fans	12	12	0	0.75	1500
9	Ventilation Fans	12	12	0	0.37	1500
10	Ventilation Fans	4	4	0	0.37	1500
11	Ventilation Fans	8	8	0	0.37	1500
	Miscellaneous Load					
1	Lighting Load		1		60.00	
2	Instrumentation Load		1		5.00	
3	Laboratory Load				10.00	

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